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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,106	02/15/2006	Angus Reardon	REAR0101PUSA	2673
22045	7590	07/26/2010	EXAMINER	
BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075			BAYOU, AMENE SETEGNE	
			ART UNIT	PAPER NUMBER
			3746	
			MAIL DATE	DELIVERY MODE
			07/26/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/595,106	Applicant(s) REARDON, ANGUS	
	Examiner AMENE S. BAYOU	Art Unit 3746	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 May 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,5-8,10-16,18,20 and 22-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,5-8,10-16,18,20 and 22-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 February 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1,2,5,6,7,11-13,15,18,20,22,26,27 are rejected under 35 U.S.C 103(a) as being unpatentable over Shotmeyer (3908690) in view of Koyama (4966522).

3. In re claim 1 Shotmeyer discloses a device for collecting water including:

- **An apparatus (figure 1)** for attachment to an inlet end of **a conduit (32)** in fluid communication with **a remote pump (36)** for removing liquid from **a pool of liquid (16)** , the apparatus comprising a substantially spheroidal or ovoidal shaped sections that mount about the inlet end of the **conduit (32)** ,the sections forming a **hollow body (10)** having a substantially elliptical cross-section ; wherein the **hollow body (10)** freely sinks in a **pool of liquid (16)** to rest on an underlying surface of the pool of liquid ;and wherein the sections form **at least one opening (the opening connecting to the tube 32)** in a generally horizontal plane allowing liquid to ingress from **the pool (16)** to the interior of the **hollow body (10)** and the inlet of **the conduit (32)**. Shotmeyer does not disclose that the hollow body is formed of a pair of sections. But Koyama teach a similar liquid intake apparatus in which the hollow body (4b) is formed of a pair of sections (see figure 2).It would have been obvious to one skilled in the art

Art Unit: 3746

at the time the invention was made to have made the hollow body of Shotmeyer from two components as taught by Koyama for ease of assembly and also accessibility when required. In addition please note that it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art.

Nerwin v. Erlichman, 168 USPQ 177, 179

4. In re claim 2 Shotmeyer in view of Koyama as applied to claim 1 discloses the claimed invention:

Shotmeyer discloses:

- The at least one opening (**the opening connecting to the tube 32**) is located at a circumferential portion of mid section of the hollow body (**figure 1**).

5. In re claim 5 Shotmeyer in view of Koyama as applied to claim 1 discloses the claimed invention:

Shotmeyer discloses

- The at least one opening in the hollow body further comprises **a plurality of spaced openings (30;figure 2)**, which are arranged in a row about the mid section or mid part of **the hollow body (10)** which has the greatest diameter.

6. In re claim 6 and 7 Shotmeyer in view of Koyama as applied to claim 1 discloses the claimed invention since Shotmeyer discloses the at least one opening (**the opening connecting to the tube 32**) is a single opening in the hollow body about a majority of its diameter, and that the opening is adjustable

Art Unit: 3746

in width (by varying the dimension of the opening).Since Shotmeyer in figure 1 and 2 clearly discloses more than one opening about the major diameter making it a single opening covering the majority of the diameter merely depends on one's design choice and required flow rate. In addition please note that it has been held that the provision of adjustability, where needed, involves routine skill in the art. In re Stevens, *101 USPQ 284 (CCPA 1954)*.

7. In re claim 11 Shotmeyer in view of Koyama as applied to claim 1 discloses the claimed invention since Shotmeyer that the hollow body (10) has a retaining means (the point of attachment holding the tube 32 is an integral part of 10) which in use retains the inlet for the conduit (32) within the hollow body (10).

8. In re claim 12 Shotmeyer in view of Koyama as applied to claim 11 discloses the claimed invention:

Koyama discloses:

- The retaining means is a **plurality of upright rods (4c)** attached to an internal surface of the **hollow body (4b)** , in **figure 2**.It would have been obvious to one skilled in the art at the time the invention was made to have attached plurality of rods to the hollow body of Shotmeyer as taught by Koyama to reinforce the internal body and prevent structural damage (clearly stated by Koyama in column 1,lines 20-22)

9. In re claim 13 Shotmeyer in view of Koyama as applied to claim 11 discloses the claimed invention:

Koyama teaches:

Art Unit: 3746

- The retaining means is one of a **plurality of peripheral ribs (4c)** located on an internal surface of the **hollow body (4b)**. Please note that items 4c can be considered as ribs as well. See obviousness in claim 12 above.

10. In re claim 15 Shotmeyer in view of Koyama as applied to claim 1 discloses the claimed invention since Shotmeyer in figure 1 clearly show that the apparatus includes the pump inlet (which is the connection to pump 36).

11. In re claim 18 Shotmeyer discloses that the **inlet conduit (32)** is a **hose** and provides fluid communication between the pump inlet and the remote **pump (36)**.

12. In re claim 20 Shotmeyer discloses that the apparatus comprises a **remote pump (36)** located on **dry land (20)**.

13. In re claim 22 Shotmeyer in view of Koyama discloses the claimed invention:

Koyama teaches:

- The pump inlet is protected by a strainer or gauze (4b) to prevent particulate matter entering the pump inlet (4), in figure 2. It would have been obvious to one skilled in the art at the time the invention was made to have provided a strainer to the pump inlet of Shotmeyer as taught by Koyama in order to prevent particulate matter from entering the pump.

14. In re claim 26 and 27 Shotmeyer in view of Koyama discloses the claimed invention since Shotmeyer's apparatus comprises a pivotal connector on the hollow body for use with the conduit such that the hollow body automatically orients itself (**hollow body 10** is much longer in the horizontal than the vertical

Art Unit: 3746

direction and thus it orients in the horizontal manner as shown in figure 1) as it sinks to lie flat on the underlying surface of the pool of the liquid and the elliptical crosssection (inherently) causes the hollow body to automatically orient itself when in contact with the underlying surface of the pool of liquid such that the at least one opening lies generally parallel with the underlying surface.

15. Claims 8 and 10 are rejected under 35 U.S.C 103(a) as being unpatentable over Shotmeyer (3908690) in view of Koyama (4966522) as applied to claim 1 further in view of Dunmire (2950930).

16. In re claim 8 Shotmeyer in view of Koyama disclose the claimed invention except mentioning that the apparatus comprises a pair of corresponding sleeves on the pair of sections and a fastener for use with the pair of sections such that the pair of sections are releasably attached to each other. But Dunmire teach a method of coupling fluid conduits including:

- **A pair of corresponding sleeves (40,41;figure 2)** ,each sleeve oriented on one of the **pair of sections (14,15)** , and **a fastener (43)** for use with the **pair of sections (14,15)** such that the pair of sections are releasably attached to each other. It would have been obvious to one skilled in the art at the time the invention was made to have made the fluid conduit of Shotmeyer and Koyama in pairs such that they are releasably attached to each other as taught by Dunmire for ease of access when needed and also for ease of maintenance and assembly.

17. In re claim 10 Shotmeyer in view of Koyama further in view of Dunmire as applied to claim 8 disclose the claimed invention since Dunmire's one section of

Art Unit: 3746

the **pair of sections (14,15)** is hingedly attached to the other pair of sections at adjacent respective ends of each of the sections (the connection at each end when taken separately can be considered as hinged connection since there will be free rotation until the second end is screwed).

18. Claim 14 is rejected under 35 U.S.C 103(a) as being unpatentable over Shotmeyer (3908690) in view of Koyama (4966522) as applied to claim 1 further in view of Hagan (5108591).

19. In Claim 14 Shotmeyer in view of Koyama as applied to claim 1 disclose the claimed invention except the following limitation which is taught by Hagan

- The hollow body is provided with an attachment for attaching **a tether (18)**, in figure 1. It would have been obvious to one skilled in the art at the time the invention was made to provide a tether to the oil collecting apparatus of Shotmeyer in view of Koyama as taught by Hagan in order to provide more stability to the intake structure.

20. Claim 16 is rejected under 35 U.S.C 103(a) as being unpatentable over Shotmeyer (3908690) in view of Koyama (4966522) as applied to claim 15 further in view of Strauss (4243529).

21. In re claim 16 Shotmeyer in view of Koyama disclose the claimed invention except the following limitation which is taught by Strauss:

- The pump (28) inlet includes a hollow valve casing having a non return valve or check valve (46), in figure 1. It would have been obvious to one skilled in the art at the time the invention was made to have provided a non return valve to the pump inlet structure of Shotmeyer and Koyama as

Art Unit: 3746

taught by Strauss to prevent back flow and also for ease of priming during pump start.

22. Claims 23-25 are rejected under 35 U.S.C 103(a) as being unpatentable over Breslin (5474685) in view of Strauss (4243529) further in view of Sloam (4789307).

23. In re claim 23 Breslin disclose a method for recovering immiscible liquids including:

- A submersible apparatus (90, 97), in figure 1 and 4, for removing liquid (20) from a pool of water (22) using an external pump (88) and an inlet conduit (84), in figure 2. Breslin, however fails to disclose the following limitation which is taught by Strauss:
- A pair of arcuate sections (52,54) that when in use mount about an inlet conduit (56,16) for a pump (28) to form a hollow body (52,54),the pair of sections (52,54) forming at least one opening (56) located along the junction between the pair of sections (52,54) for a majority of the outer perimeter of the hollow body (52,54),allowing liquid to flow radially into the hollow body, in figure 1. Breslin in view of Strauss fails to disclose the following limitation which is taught by Sloam :
- One section (12 or 13) of the pair of sections (12 and 13) is hingedly attached (at 14) to the other section of the pair of sections, in figure 2. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the submersible apparatus of Breslin by making it in the form of two arcuate sections as

Art Unit: 3746

taught by Strauss in order to reduce drag .Also It would have been obvious to one skilled in the art at the time the invention was made modify the oil collecting apparatus of Breslin and Strauss by connecting the pair of sections using a hinged joint as taught by Sloam for ease of opening and closing and get a faster access to the components inside the collector.

24. In re claim 24 Breslin in view of Strauss further in view of Sloam as applied to claim 23 disclose the claimed invention:

Strauss discloses:

- The pair of sections (52, 54) are releasably attached (via flanges 58, 60), in figure 1.

25. In re claim 25 Breslin in view of Strauss further in view of Sloam as applied to claim 24 disclose the claimed invention:

Strauss discloses:

- The width of at least one opening (the opening between the sections 52, 54) is adjustable in width (by varying the dimension of 82), in figure 1. In addition please note that it has been held that the provision of adjustability, where needed, involves routine skill in the art . In re Stevens, *101 USPQ 284 (CCPA 1954)*.

Response to Arguments

26. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection. Applicant has correctly noted the typographical error in the rejection of claim 23 and has been corrected.

Art Unit: 3746

Examiner ,however would like to point out that the limitation of claim 23 that was omitted was already rejected in claim 10.

Conclusion

27. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amene S. Bayou whose telephone number is 571-270-3214. The examiner can normally be reached on Monday-Thursday, 8:00 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax

Art Unit: 3746

phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the s/Devon C Kramer/

Supervisory Patent Examiner, Art Unit 3746 status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system.

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/Amene S Bayou/

Examiner, Art Unit 3746